Fluorofenidone

Cat. No.: HY-121246 CAS No.: 848353-85-5 Molecular Formula: C₁₂H₁₀FNO Molecular Weight: 203.21 PI3K; Akt Target: Pathway: PI3K/Akt/mTOR

Storage: Powder -20°C

3 years 2 years

-80°C In solvent 2 years

> -20°C 1 year

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 140 mg/mL (688.94 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.9210 mL	24.6051 mL	49.2102 mL
	5 mM	0.9842 mL	4.9210 mL	9.8420 mL
	10 mM	0.4921 mL	2.4605 mL	4.9210 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

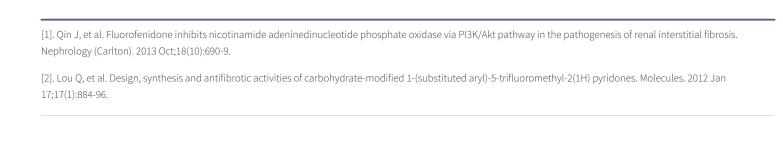
- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.33 mg/mL (11.47 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.33 mg/mL (11.47 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.33 mg/mL (11.47 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fluorofenidone (AKF-PD), an analogue of AMR69, shows equivalent antifibrotic activity, lower toxicity and longer half-life. Fluorofenidone (AKF-PD) attenuates the progression of renal interstitial fibrosis partly by suppressing NADPH oxidase and extracellular matrix (ECM) deposition via the PI3K/Akt signalling pathway^{[1][2]}.

REFERENCES



Caution: Product has not been fully validated for medical applications. For research use only.

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